Ontario Ministry of Northern Development and Mines

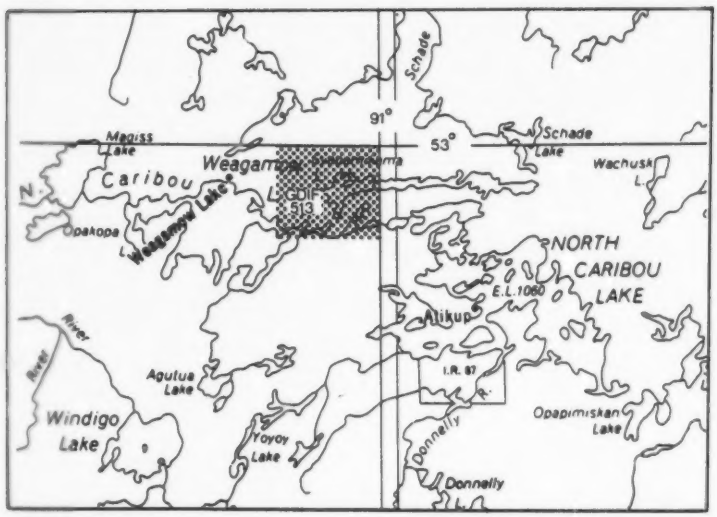
Mines and Minerals Division

ONTARIO GEOLOGICAL SURVEY

GEOLOGICAL DATA INVENTORY FOLIO 513

KEEYASK LAKE AREA

Compiled by the Staff of
the Resident Geologist's Office
Sioux Lookout



LOCATION MAP

Scale: 1:1 013 760 or 1 inch to 16 miles

CANADA ONTARIO Mineral Development Exploitation Minérale

This project is part of the five year Canada–Ontario 1985 Mineral Development Agreement (COMDA), a subsidiary agreement to the Economic and Regional Development Agreement (ERDA) signed by the governments of Canada and Ontario.

NTS Number 53 B/14NE

Mining Claim Map Number G-2085

This project was funded under the Canada-Ontario Mineral Development Agreement (COMDA)

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey 1990. Keeyask Lake Area, Geological Data Inventory Folio 513; compiled by the staff of the Resident Geologist's office, Sioux Lookout.

Original Compilation by: C.J. Proctor and M.O. Roy

Date	Page Revised	Revised by

Date	Page Revised	Revised by

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy) ton (short)	1 ounce (troy) ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights ton (short)	1 pennyweight ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

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ACCOMPANYING MAPS

Files Index Map 2

Exploration Data Map 1

ABBREVIATIONS LIST

A.F.R.O.	Assessment Files Research Office (Toronto)
Ann. Rept., (A.R.)	Annual Report
A.R.I.P.	Aggregate Resources Inventory Paper
Bull.	Bulletin
C.I.M.M.	Canadian Institute of Mining and Metallurgy
C.J.E.S.	Canadian Journal of Earth Sciences
C.M.J.	Canadian Mining Journal
Econ. Geol.	Economic Geology
E.M.R.	Department of Energy, Mines and Resources
E.P.B.	Earth Physics Branch
G.A.C.	Geological Association of Canada
GC	Geological Circular
GDIF	Geological Data Inventory Folio
Geol.	Geology
Geol. Soc. Amer. Bull	Geological Society of America Bulletin
GR	Geoscience (Geological) Report
GSC	Geological Survey of Canada
I.L.S.G.	Institute on Lake Superior Geology
IMR	Industrial Mineral Report
I.O.C.	Report of the Iron Ore Committee (1923)
Jour. (or J)	Journal
MDC	Mineral Deposit Circular
M.D.I. (R)	Mineral Deposit Inventory (Record)
Mem	Memoir
MNDM	Ministry of Northern Development and Mines
MNR	Ministry of Natural Resources
M.P.	Miscellaneous Paper
MRC	Mineral Resources Circular
N.M.I.	National Mineral Inventory
NOEGTS	Northern Ontario Engineering Geology Terrain Study
NTS	National Topographic System
O.B.M.	Ontario Bureau of Mines
O.D.L.F.	Ontario Department of Lands and Forests
ODM	Ontario Department of Mines
ODMNA	Ontario Department of Mines and Northern Affairs
OFR	Open File Report
O.G.S.	Ontario Geological Survey
P.R.	Preliminary Report
Prelim. (or P)	Preliminary
R.C.	Royal Commission on Mineral Resources of Ontario (1890)
S.M.D.R.	Source Mineral Deposit Record
Sum. Rept.	Summary Report

DATA SOURCES CHECK LIST

NOTE. The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	YES	CJP
2	Assessment Files Research Office, Toronto	AFRO	CJP
3	ODM General Index, 9 Volumes	YES	CJP
4	Catalogue of Airborne Geophysical Surveys (ODM)	NO	CJP
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	NO	CJP
6	ODM Industrial Mineral Reports	NO	CJP
7	Bibliography of Post Precambrian Thesis - Karrow (ODM MP 1)	NO	CJP
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	NO	CJP
9	Newspaper Clippings File	YES	CJP
10	GSC Index to Publications	YES	CJP
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	YES	CJP
12	OGS Index Maps	YES	CJP
13	Source Mineral Deposit Records (O.G.S.)	NO	CJP
14	Author - Subject Articles File	NO	CJP
15	Miscellaneous Papers ODM & OGS	YES	CJP
16	ODM Geological Circulars OGS Study Series	NO	CJP
17	ODM Preliminary Reports, ODM Bulletins	YES	CJP
18	ODM - OGS Open File Reports	YES	CJP
19	OGS Northern Ontario Engineering Geology Terrain Studies	NO	CJP
20	OGS Aggregate Resources Inventory Papers	NO	CJP
21	OGS Mineral Potential Maps	YES	CJP
22	Drill Core Library Catalogue	NO	CJP
23	Aerial Photographs	NO	CJP
24	Unpublished Theses	YES	CJP

KEEYASK LAKE

METALS AND MINERALS REFERENCES LIST

- △ anh ..... Anhydrite
- △ ank ..... Ankerite
- △ anna ..... Annabergite
- △ ap ..... Apatite
- △ arg ..... Argentite
- △ As ..... Arsenic
- △ asp ..... Arsenopyrite
- △ asb ..... Asbestos
- △ ba ..... Barite
- △ be ..... Beryl
- △ Bi ..... Bismuth
- △ bn ..... Bornite
- △ bran ..... Brannerite
- △ bruc ..... Brucite
- △ Cd ..... Cadmium
- △ calc ..... Calcite
- △ carb ..... Carbonate
- △ cel ..... Celestite
- △ cc ..... Chalcocite
- △ cp ..... Chalcopyrite
- △ ch ..... Chert
- △ clay ..... Clay
- △ Co ..... Cobalt
- △ cob ..... Cobaltite
- △ cb ..... Columbite
- ▲ Cu ..... Copper
- △ cor ..... Corundum
- △ dol ..... Dolomite
- △ ep ..... Epidote
- △ ery ..... Erythrite
- △ fel ..... Feldspar
- ▲ fl ..... Fluorite (flurospar)
- △ fu ..... Fuchsite
- △ gn ..... Galena
- △ gt ..... Garnet
- △ goe ..... Goethite
- ▲ Au ..... Gold
- △ gf ..... Graphite
- △ gl ..... Gravel
- △ gyp ..... Gypsum
- △ hem ..... Hematite
- △ il ..... Ilmenite
- △ Fe ..... Iron
- △ IF ..... Iron Formation
- △ jas ..... Jasper
- △ kaol ..... Kaolinite (kaolin)
- △ ky ..... Kyanite
- ▲ Pb ..... Lead
- △ lim ..... Limonite
- △ Li ..... Lithium
- △ mgst ..... Magnesite
- △ mag ..... Magnetite
- △ mc ..... Malachite
- △ Mn ..... Manganese
- △ mb ..... Marble
- △ mar ..... Marcasite
- △ ma ..... Marl
- △ mi ..... Mica
- △ ml ..... Millerite
- ▲ mo ..... Molybdenite
- △ Mo ..... Molybdenum
- △ mon ..... Monazite
- △ ne .... Nephelite (nepheline)
- △ nc ..... Niccolite
- △ Ni ..... Nickel
- △ Nb ..... Niobium
- △ Pd ..... Palladium
- △ peat ..... Peat
- △ pent ..... Pentlandite
- △ Pt ..... Platinum
- △ py ..... Pyrite
- △ pyl ..... Pyrochlore
- △ pyrl ..... Pyrolusite
- △ po ..... Pyrrhotite
- △ q ..... Quartz
- △ qcv .. Quartz carbonate vein
- △ ra ..... Radioactive minerals
- △ RE ..... Rare Earths
- △ sd ..... Sand
- △ sgl ..... Sand and gravel
- △ ss ..... Sandstone
- △ scap ..... Scapolite
- △ shee ..... Scheelite
- △ serp ..... Serpentine
- △ sh ..... Shale
- △ sid ..... Siderite
- △ si ..... Silica
- ▲ Ag ..... Silver
- △ sl ..... Slate
- △ sm ..... Smaltite
- △ sod ..... Sodalite
- △ spec ..... Specularite
- △ sp ..... Sphalerite
- △ spd ..... Spodumene
- △ staur ..... Staurolite
- △ stib ..... Stibnite
- △ st ..... Stone
- △ s ..... Sulphides
- △ talc ..... Talc
- △ Te ..... Tellurium
- △ td ..... Tetrahedrite
- △ th ..... Thorite
- △ Th ..... Thorium
- △ thuc ..... Thucholite
- △ ti ..... Titanite
- △ Ti ..... Titanium
- ▲ tour ..... Tourmaline
- △ trap ..... Trap rock
- △ W ..... Tungsten
- △ uran ..... Uraninite
- △ U ..... Uranium
- △ verm ..... Vermiculite
- △ Y ..... Yttrium
- ▲ Zn ..... Zinc
- △ zr ..... Zircon
- ▲ mr ..... mariposite
- ▲ ct ..... cordierite

▲ Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

MINERAL OCCURRENCES

Map Ref. Letter	(see Exploration Data Map) Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	Eyapamikama Lake molybdenite-fluorite occurrence	mo,fl,tour, ct			File 53B/14NE-0026 p.11, fig. 4 MP 119, p.272 Map P.2834
B	Arseno Lake Occurrence	Zn,Pb,Ag, Au,Cu			File 53B/14NE-0028
C	Pyrotex Occurrence	Au,Cu			Map P.2834 MP.126, p.283
D	North Caribou River Occurrence	Ag,Zn,Pb			Map P.2834
E	Unnamed (Centre Lake)	Cu			Map P.2834 MP.126, p.282-285

KEEYASK LAKE AREA

TYPE OF WORK (see files Index Map) EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE		Numbers below represent the year in which the work was done; e.g., 68 for 1968																		
Ref. No. on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY			
1	ST. JOSEPH EXPLORATION L. (53B/14NE-0010-A1)				79	79														
2	ST. JOSEPH EXPLORATION L. (53B/14NE-0010-B1)				79	79														
3	PYROTEX MINING AND EXPLORATION COMPANY (53B/14NE-0010-D1)				67															
4	ST. JOSEPH EXPLORATION L. (53B/14NE-0011-A1)											78	78							
5	EAST TRINITY MINING (53B/14NE-0011-C1)											60	60							
6	ST. JOSEPH EXPLORATION L. (53B/14NE-0012)	78										78	78							
7	MOSS RESOURCES HORSESHOE RES. L. (53B/14SE-0018)	85										85	85							
8	COMSTATE RESOURCES L. (53B/15NW-0018)	85	85																	

Ref No on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY		
	TYPE OF WORK	Numbers below represent the year in which the work was done; e.g., 68 for 1968																	
	(see files Index Map) EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE																		
9	NORTHERN DYNASTY NEWFIELDS MINERALS INC. WESTFIELD MINERALS L. (53B/15NW-0019)	85	85					85				85	85						
10	MILNER CONSOLIDATED MS. (53B/15NW-0017)	86										86	86						
11	MOSS RESOURCES L. (53B/14SE-0020)	85	85																
12	MOSS RESOURCES L. (53B/14SE-0021)		85					85											
13	MOSS RESOURCES (53B/14SE-0022)	85																	
14	MOSS RESOURCES L. ORACLE RESOURCES L. (53B/14NE-0013)				86/87														
15	SULPETRO MINERALS (53B/14NE-0014)	85				85		85											
16	MOSS RESOURCES L. HODGE, J.F. (53B/14NE-0015)					86						86	86						

TYPE OF WORK (see files Index Map) EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE		Numbers below represent the year in which the work was done; e.g., 68 for 1968																		
Ref. No. on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY			
17	AGNICO-EAGLE MINES L. (53B/14NE-0016)	86	86																	
18	BOWDIDGE, C. R. (53B/14NE-0017)	86				86														
19	BOWDIDGE, C. R. (53B/14NE-0018)	86				86														
20	AGNICO-EAGLE MINES L. (53B/14NE-0019)											87	87							
21	NORTHERN DYNASTY (53B/14NE-0020)								86	86										
22	NORTHERN DYNASTY (53B/14NE-0021)			85																
23	NORTHERN DYNASTY (53B/14NE-0022)				87															
24	BAZINET, E.W. (53B/14NE-0023)				87															
25	BONIWELL, J.B. MEDD, S.B. (53B/14NE-0024) *2.10696														87					

* Toronto File Number

Ref. No. on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY			
	TYPE OF WORK (see files Index Map) EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE	Numbers below represent the year in which the work was done; e.g., 68 for 1968																		
26	LITTLE ABITIBI RIVER RESOURCES INC. (53B/14NE-0025)*2.10842											88	88							
27	POWER EXPLORATIONS INC. (53B/14NE-0026)*2.10530	87	87	87		87														
28	AGNICO-EAGLE MINES L. BONIWELL, J. B. MEDD, S. B. (53B/14NE-0027)				87															
29	NORTHERN DYNASTY (53B/14NE-0028)				87															
30	POWER EXPLORATION INC. (53B/14SE-0024) *2.10731	87	87			87														
31	NORTHERN DYNASTY L. NEWFIELDS MINERALS INC. WESTFIELD MINERALS L. (53B/14NE-0029)*2.11041	87	85/87			87						87	87							
32	MOSS RESOURCES (53B/14NE-0030)*2.11398											88	88							

* Toronto File Number

TYPE OF WORK (see files Index Map) EXPLORATION DATA filed at the RESIDENT GEOLOGIS[illegible] OFFICE		Numbers below represent the year in which the work was done; e.g., 68 for 1968																		
Ref. No on Map	COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY			
33	BEAUFIELD RESOURCES INC. MILNER CONSOLIDATED SILVER MINES LIMITED (53B/15NW-0025)				87	87		87												
34	GOLDEN TANAGER RES. L. DARVEAU, CLAUDE DARVEAU, JEAN (53B/14SE-0026) *2.11648											88	88							
35	POWER EXPLORATIONS (53B/14SE-0027)				88	88														

* Toronto File Number

KEEVAGH LAKE AREA

DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
1	ST. JOSEPH EXPLORATION	3190-5-79	1979	343	-45	1.82m	94.18m	py,po,cp,mag	Cu,Zn,Au,Ag
2	ST. JOSEPH EXPLORATION	3190-1-79	1979	323	-45	3.44m	85.49m	py,po,cp,sp	Cu,Zn,Au,Ag
3		3190-3-79	1979	323	-45	4.20m	93.57m	py,mag,cp,po	Cu,Zn,Au,Ag
4		3190-2-79	1979	323	-45	8.99m	81.08m	py,asp,mag, cp,po	Cu,Zn,Au,Ag
5		3190-4-79	1979	330	-45	3.35m	106.37m	py,mag,po	Cu,Zn,Au,Ag
6	PYROTEX MINING & EXPL. C.	B-67-1	1967	N58W	-45	13.00	152.00	asp,cp,po	--
6		B-67-2	1967	N50W	-45	14.00	84.00	--	--
6		B-67-3	1967	--	-60	11.50	90.00	asp	Au,Ag
7		B-67-4	1967	N25W	-45	32.00	614.00	--	--
8	MOSS RESOURCES	AG-86-1	1986	0	-45	15.00	249.00	ep,py,cp,fu, asp,ank	Au,Ag
8		AG-86-2	1986	0	-45	7.00	248.00	ep,py,cp,fu, asp	Au,Ag
8		AG-86-3	1986	0	-44.5	7.00	298.00	ep,py,asp,po, cp,ank	Au,Ag
8		AG-87-1	1987	0	-50	45.00	279.00	ep,py,cp,fu, mag	Au,Ag
9		AG-87-2	1987	0	-46	17.00	249.00	cp,ank,py,po, asp,fu,ep	Au,Ag

● —— indicates core stored at Drill Core Library

KERVASK LAKE AREA

DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
10	MOSS RESOURCES	AG-87-3	1987	0	-46	11.00	248.00	ep,py,po,cp, asp	Au,Ag
11		AG-87-4	1987	0	-46	8.00	249.00	cp,py,ep,asp	Au,Ag
12		AG-87-5	1987	0	-46	15.00	249.00	py,cp,fu,po, ep,asp	Au,Ag
13		AG-87-6	1987	0	-44.5	46.00	249.00	py,ep,cp,po, asp	Au,Ag
14		AG-87-7	1987	0	-44.5	7.00	249.00	ep,py,po,cp	Au,Ag
15		AG-87-8	1987	0	-45	12.00	248.00	ep,py,po,cp, asp	Au,Ag
16		AG-87-9	1987	0	-44.5	43.00	349.00	ep,py,cp,mo, fu,asp,po	Au,Ag
17		AG-87-10	1987	0	-47	16.00	299.00	ep,py,po,cp	Au,Ag
18		AG-87-11	1987	0	-45.5	18.00	298.00	py,cp,po,ep	Au,Ag
19	NORTHERN DYNASTY EXPL.	AL-87-12	1987	182	-46	4.60	149.05	tour,gn,py, po,cp,sp	Au,Ag,Zn, Pb,Cu
20	BAZINET, E.W.	5	1987	N35W	-45	25.50	347.00	cp,py,po	Au,Ag
21		6	1987	N35W	-45	4.00	303.00	py,po,cp	Au,Ag
22		7	1987	N35W	-45	4.50	347.00	py,po	Au,Ag
23	AGNICO-EAGLE MINES L.	C-87-1	1987	30N	-45	10.68m	158.23	py,po,sp,gn, tour	Au,Ag

● —— indicates core stored at Drill Core Library

DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
24	AGNICO-EAGLE MINES L.	C-87-3	1987	0	-45	3.05m	191.77m	tour,sp,po,py, asp,gt	Au,Ag
25		C-87-4	1987	0	-45	3.66m	161.28m	po,py,sp,gn, cp	Au,Ag,Zn, Cu
26		C-87-5	1987	155N	-45	3.04m	130.79m	mag,gn,py,po, asp,sp	Au,Ag,Cu, Zn
27		C-87-6	1987	0	-45	9.57m	130.79m	cp,po,py,sp, asp	Au,Ag,Cu, Zn
28		C-87-7	1987	0	-45	6.09m	177.13m	po,py,gn,gt, tour,asp,sp	Au,Ag
29	NORTHERN DYNASTY EXPL.	87A-13	1987	182	-65	3.05m	193.00m	gt,po,asp,py, gn,cp,sp	Au,Ag,Cu, Zn,Pb
30		87A-14	1987	182	-45	18.00m	66.70m	py,po,sp,gn,mr	Au,Ag,Cu, Pb,Zn
31		87A-15	1987	182	-45	8.30m	61.00m	gt,mr,po,py,sp cp,gn,asp	Au,Ag,Cu, Pb,Zn
32		87A-16	1987	182	-45	1.20m	128.70m	py,po,gt,mr	Au,Ag,Cu, Pb,Zn
32		87A-17	1987	182	-60	0.80m	70.30m	gt,po,py,mr	Au,Ag,Cu, Pb,Zn
33		87A-18	1987	182	-45	11.20m	128.50m	py,po,gt,mr,cp gn,sp	Au,Ag,Cu, Pb,Zn
33		87A-25	1987	182	-60	10.00m	197.80m	gn,cp,asp,po, tour,py,gt,sp	Au,Ag,Cu, Pb,Zn

● —— indicates core stored at Drill Core Library

DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
34	NORTHERN DYNASTY EXPL.	87A-19	1987	180	-45	7.50m	69.80m	gt,po,py,sp, asp,cp,gn	Au,Ag,Cu, Pb,Zn
34		87A-20	1987	180	-65	5.40m	105.80m	gt,po,py,sp, cp,mr	Au,Ag,Cu, Pb,Zn
35		87A-21	1987	180	-45	1.70m	118.60m	gt,cp,po,gn, mr,sp,py	Au,Ag,Cu, Pb,Zn
36		87A-22	1987	180	-45	2.40m	124.70m	py,asp,po,sp, gn,gt	Au,Ag,Cu, Pb,Zn
37		87A-23	1987	180	-45	2.44m	136.90m	po,py,gt,sp, asp	Au,Ag,Cu, Pb,Zn
38		87A-24	1987	180	-45	1.50m	130.80m	gt,po,mr,cp, sp	Au,Ag,Cu, Pb,Zn
39	POWER EXPLORATIONS	RL-88-9	1988	332	-45	25.50	294.00	py,tour,cp	Au
40		RL-88-10	1988	332	-44	10.00	347.00	po,py,asp,mag	Au
41		RL-88-11	1988	332	-45	10.00	557.00	mag,gt,fu,ep, talc,tour,py, po,cp,asp	Au
42		RL-88-12	1988	332	-45	10.90	497.00	mag,tour,fu, po,py,asp,ep, cp	Au
43		RL-88-13	1988	332	-45	10.40	487.00	tour,po,py,ep, asp,mag	Au
44		RL-88-14	1988	332	-46	22.70	327.00	py,po,asp,fu, mag	Au

● —— indicates core stored at Drill Core Library

DRILLHOLE SUMMARY

Drilling Location Number on Map	(see Exploration Data Map) Company Name	Company Drillhole Number	Date Drilled Completed	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
45	POWER EXPLORATIONS	RL-88-22	1988	280	-46	16.00	427.00	talc,asp,tour, fu,py,cp,mag, po	Au

● —— indicates core stored at Drill Core Library

KERSAGE TWP.

AIRBORNE GEOPHYSICAL SURVEY DATA

Number on File Index Map	— by — for — year	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
21	by: Terraquest Ltd. for: Northern Dynasty Expl. year: 1986 (53B/14NE-0020)	magnetic and electromagnetic	100m	360°	100m

KEEYASK LAKE AREA

GEOCHEMICAL SURVEY DATA

(see Exploration Data Map)

Map Sample Site Reference Number	Type of Survey	Analysis For	By	Reference Resident Geologist's Office Files
1	Rock	Au,Cu,(multi-spectral)	Comstate Resources L.	(53B/15NW-0018)
2	Soil, rock, humus	Au,As,(multi-spectral)	Northern Dynasty Newfields Minerals Inc. Westfield Minerals L.	(53B/15NW-0019)
3	Rock, soil	Au,Ag,Cu	Moss Resources	(53B/14SE-0020)
4	Soil, rock	Au,(multi-spectral)	Moss Resources	(53B/14SE-0021)
5	Soil	Au,As	Agnico-Eagle Mines L.	(53B/14NE-0016)
6	Rock	Au	Power Expl. Inc.	(53B/14NE-0026)
7	Rock, channel	Au	Power Expl. Inc.	(53B/14SE-0024)
8	Soil, rock, humus	Au, (multi-spectral)	Northern Dynasty	(53B/14NE-0029)

GEOCHRONOLOGY DATA - AGE DATING

Site	Method	Material	Reference	Result
NO DATA AS OF APRIL, 1989				

AERIAL PHOTOS; MOSAICS; IMAGERY

The following items are available for inspection at the Resident Geologist's office:

(a) Aerial Photographs: No Data as of April, 1989

(b) Photomosaics:

(c) Satellite Imagery:

TOPOGRAPHIC MAPS (selected)

scale	year	name and/or number	by
1:250,000	1981	North Caribou Lake 53B	Surveys and Mapping Branch, Dept. of Energy, Mines and Resources

KEEYASK LAKE AREA

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area. is maintained in the Regional/Resident Geologist's Office.

COMPANY	NEWSPAPER	DATE	PAGE
MOSS RESOURCES	NORTHERN MINER	FEB. 20/89	p.19
		AUG. 15/88	p.12
		MAY 16/88	p.15
		SEPT.16/85	p.5
		JULY 14/85	p.3
		JUNE 23/85	p.6
	DRYDEN OBSERVER	JULY 19/88	p.12
	GEORGE CROSS NEWSLETTER	?	?
NORTHERN DYNASTY	NORTHERN MINER	APR. 27/87	p.7
		JAN. 19/87	p.24
	GEORGE CROSS NEWSLETTER	JUNE 16/87	--
		APR. 23/87	--
		JAN. 13/87	--
		JULY 16/85	--
		JUNE 17/85	--
		FEB. 21/85	--
		JAN. 15/85	--
		JUNE 30/87	--
NEWFIELDS MINERALS INC. WESTFIELD MINERALS L.	NORTHERN MINER	APR. 27/87	--
		JAN. 19/87	--
	GEORGE CROSS NEWSLETTER	JULY 16/85	--
		JUNE 17/85	--
		FEB. 21/85	--
		JAN. 15/85	--
POWER EXPLORATIONS	NORTHERN MINER	NOV. 23/87	p.6
		MAY 16/88	p.15
	DRYDEN OBSERVER	JULY 19/88	p.12
GOLDEN TANAGER	NORTHERN MINER	NOV. 21/88	p.21
		JULY 18/88	p.12

ODM GENERAL INDEX SEARCH

Words searched: Keeyask Lake, Eyapamikama Lake, North Caribou Lake, Agutua Arm of Weagamow Lake, Weagamow Lake, Misekeesik Lake, Capella Lake, Staunton Lake

Index Volume	Listing	Report Volume	Part	Page
III	Geology of the Windigo-North Caribou Lake Area	XLVIII	9	p.6, 7,9, 12-14, 16,19, 21,27, 28
8	Operation Winisk Lake	MP 49		p.20
9	Geology of the Winisk Lake Area	GR193		

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
BARTLETT, J.R. BREAKS, F.W. DEKEMP, E.A. SHIELDS, H.N.	1985	Precambrian Geology of Eyapamikama Lake Area (Opapimiskan Lake Project), Kenora District (Patricia Portion), O.G.S., Map P.2834, Geological Series	P.2834	1:31,680
BREAKS, F.W. BARTLETT, J.R. DEKEMP, E.A. FINAMORE, P.F. et al	1984	Opapimiskan Lake Project: Precambrian Geology, Quaternary Geology and Mineral Deposits of the North Caribou Lake Area, District of Kenora (Patricia Portion), p.258-273 in Summary of Field Work, O.G.S., Miscellaneous Paper 119, 309p.	MP 119	p.258-273
BREAKS, F.W. BARTLETT, J.R. OSMANI, I.A. FINAMORE, P.F. WALLACE, H.	1985	Opapimiskan Lake Project: Precambrian and Quaternary Geology of the North Caribou Lake Area, District of Kenora (Patricia Portion), p.268-278 in Summary of Field Work and Other Activities, O.G.S., Miscellaneous Paper 126, 351p.	MP 126	p.268-278
DUFFELL, S. MACLAREN, A.S. HOLMAN, R.H.C. (G.S.C.)	1963	Red Lake-Lansdowne House Area, Northwestern Ontario, Bedrock Geology, Geophysical and Geochemical Investigations, parts of Report 42,43,52,53, Map 2-1963, Map 3-1963	Paper 63-5 Map 2-1963 Map 3-1963	1"=8 Miles 1:506,880
EASTON, R.M.	1986	Geochronology Compilation Map for Ontario, Sheet 5, Northwestern Ontario, All Isotopic Systems; O.G.S., Map P.2844, Compilation Series	P.2844	1"=16 miles 1:1,013,760
EMSLIE, R.F. HOLMAN, R.H.C. (G.S.C.)	1966	The Copper Content of Canadian Shield Rocks, Red Lake-Lansdowne House Area, Northwestern Ontario, Bulletin 130	Bulletin 130	
FINAMORE, P.F.	1986	Quaternary Geology of the North Caribou Lake-Weagamow Lake Area, Kenora District (continued)	P.3043	1:50,000

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Author	Date	Title	Reference	Map Scales and/or Report Pages
FINAMORE, P.F.	1986	(Continued) (Patricia Portion); O.G.S., Map P.3043, Geological Series.		
G.S.C.	1963	Geochemistry (Copper in Bedrock) North Caribou Lake, Ontario, Map 52-1963	Map 52-1963	1"=4 Miles 1:253,440
O.D.M.	1969	Northern Patricia Portion, District of Kenora Preliminary Map P.526	P.526	1"=25 Miles 1:1,584,000
O.D.M.	1970	Ontario Geological Map, Northwest Sheet, Map 2201	Map 2201	1"=16 Miles 1:013,760
O.D.M.	1960	Weagamow Lake, Kenora District, Ontario, Aeromagnetic Series, Map 909G	Map 909G	1"=1 Mile 1:63,360
O.D.M.	1973	Big Trout Lake-North Caribou Lake, Geological Compilation Series, Kenora District, Map 2292	Map 2292	1"=4 Miles 1:253,440
O.D.M.	1939	North Caribou Lake Area, District of Kenora, (Patricia Portion), Ontario, Map 48h, to accompany Report by J. Satterly	Map 48h	1"=1 Mile 1:63,360
O.G.S.	1985	Airborne Electromagnetic and Total Intensity Magnetic Survey, Opapimiskan Lake Area, District of Kenora, Patricia Portion, by Aerodat Limited, for O.G.S., Geophysical/Geochemical Series, Maps 80718, 80719 and 80725	Maps 80718 80719 80725	1:20,000
OSMANI, I.A. STOTT, G.M.	1988	Regional Scale Shear Zones in Sachigo Subprovince and Their Economic Significance, p.53-67 in Summary of Field Work and Other Activities 1988, O.G.S., Miscellaneous Paper 141, 498p.	MP 141	p.53-67

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
PIROSHCO, D. SHIELDS, H.	1985	Geology and Gold Mineralization of the Eyapamikama Lake Area of the North Caribou Lake Greenstone Belt, District of Kenora (Patricia Portion), p.277-286 in Summary of Field Work and Other Activities, O.G.S., Miscellaneous Paper 126, 351p.	MP 126	p.277-286
PIROSHCO, D.	1986	Structural Geology and Gold Mineralization of the Eyapamikama Lake Area of the North Caribou Lake Greenstone Belt, District of Kenora (Patricia Portion), p.379-385 in Summary of Field Work and Other Activities, O.G.S., Miscellaneous Paper 132, 435p.	MP 132	p.379-385
PREST, V.K.	1963	Red Lake-Lansdowne House Area, Northwestern Ontario, Surficial Geology, parts of 42, 43, 52, 53, Paper 63-6, Map 4-1963, Map 5-1963	Paper 63-6 Map 4-1963 Map 5-1963	1"=8 Miles 1:2,506,880
ROBERTSON, J.A. VOS, M.A. SPRINGER, J.S.	1976	Mineral Potential Map of Ontario 1976, Northwestern Sheet; O.D.M., Map P.1096, Mineral Deposits Series	P.1096	1"=16 Miles 1:1,013,760
SATTERLY, J.	1938	Preliminary Report on the Windigo - Weagamow - Caribou Lakes Area, P.R. 1938-4	P.R.1938-4	--
SPRINGER, J.	1976	Ontario Mineral Potential, North Caribou Lake Sheet, District of Kenora (Patricia Portion), O.G.S., Map P.1547, Mineral Deposits Series	P.1547	1:250,000
THURSTON, P.C. SAGE, R.P. SIRAGUSA, G.M.	1971	Operation Winisk Lake, Weagamow Lake Sheet, District of Kenora (Patricia Portion), O.D.M. and Northern Affairs, Map P.711, Geological Series	P.711	1"=2 Miles

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Author	Date	Title	Reference	Map Scales and/or Report Pages
THURSTON, P.C. SAGE, R.P. SIRAGUSA, G.M.	1979	Geology of the Winisk Lake Area, District of Kenora, (Patricia Portion), O.G.S. Report 193, 169p., accompanied by Maps 2287 and 2292	Report 193 Maps 2287 2292	1:253,440
THURSTON, P.C. SAGE, R.P. SIRAGUSA, G.M.	1971	Operation Winisk Lake, District of Kenora, Patricia Portion, p.13-21 in Summary of Field Work, 1971 by the Geological Branch, O.D.M. and Northern Affairs, MP 49, 109p.	MP 49	p.13-21
THURSTON, P.C. SAGE, R.P. SIRAGUSA, G.M.	1975	Operation Winisk Lake, District of Kenora (Patricia Portion) Division of Mines, O.F.R. 5119, 297p.	OFR 5119	
DEKEMP, ERIC ANTHONY	1987	Stratigraphy, Provenance, and Archean, Supracrustral Rocks of Western Eyapamikama Lake Area, Northwestern, Ontario	THESES	

NOTES AND ADDENDA

Due to the scale of the exploration map and the intensity of work in some areas, a trench symbol may represent one or more trenches.

MAPS
NOT
FILMED

CARTES
OMISES